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1 Place Value PAGES 32 AND 33

NYS NEXT GENERATION MATHEMATICS LEARNING STANDARDS

3.NBT.4.a Understand that the digits of a four-digit number represent amounts of thousands, hundreds, tens, and ones.

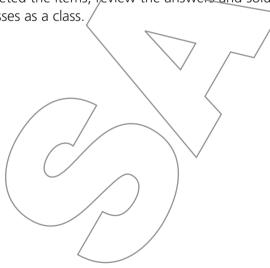
3.NBT.4.b Read and write four-digit numbers using base-ten numerals, number names, and expanded form.

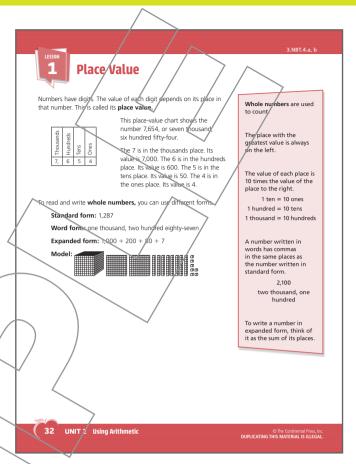
Introduction

The lesson reviews place value for four-digit whole numbers. Read or have a volunteer read through the lesson and discuss the examples with the class. Review the values of each place and show students how the value of a digit changes as it moves one place to the left. Discuss the different ways to write whole numbers. Allow students to work with place-value blocks if they are available.

Guided Practice

The guided practice page provides sample multiplechoice and constructed answer problems for the students to complete on their own. Each item is accompanied by a hint or reminder that guides the student's thinking about how to solve the problem. Offer assistance as needed. When students have completed the items, review the answers and solution processes as a class.



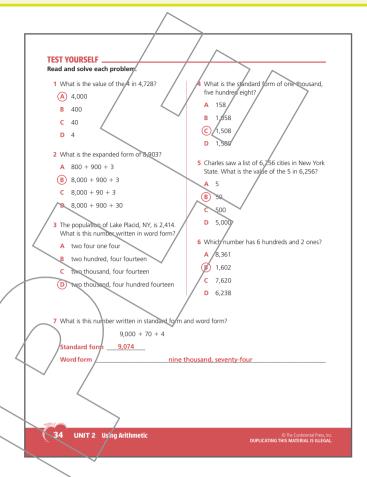


GMIDED PRACTICE ad and solve each problem 1 In which number does the digit 7 have a value of 700? hundreds place? Look for a number B 7.912 with a 7 in that place. C 4327 (D) 2,798 2 A flight from New York City to Paris, France, travels about 3,636 miles. What is this distance written in word form? value of each digit Write it using A three hundred thirty-six B three thousand, six hundred thirty c three thousand, six hundred thirty-six D three thousand, three hundred sixty-six 3 The Chrysler Building in New York City is 1,046 feet high to the tip. Write this height in expanded form. 1.000 + 40 + 6write that place in expanded form 4 Witney earned 6,935 points in a video game. What is the value of each Think about the place value of each digit. Write that 6 = 6,000 9 = ____900___ 3 = _____30____ 5 = ____5___ UNIT 2 Using Arithmetic 33

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Answer Rationales

- **1.** In 4,728, the 4 is four places from the right, which is the thousands place. The value of the 4 is $4 \times 1,000$, or 4,000. Choice A is correct. (3.NBT.4.a)
- 2. To write a number in expanded form, write it as the sum of its place values. This number has 8 thousands, 9 hundreds, and 3 ones. There are no tens, so that place is not included. In expanded form, 8,903 is 8,000 + 900 + 3. Choice B is correct. (3.NBT.4.b)
- 3. There are 2 thousands, 4 hundreds, 1 ten, and 4 ones. Write the words for the thousands and hundreds values. Since 1 ten and 4 ones make 14, use the word form of that number. In word form, 2,414 is two thousand, four hundred fourteen. Choice D is correct. (3.NBT.4.b)
- 4. Write a digit for each given value. There is no value for the tens place, so there is a 0 in the tens place in standard form. One thousand, five hundred eight is 1,508. Choice C is correct. (3.NBT.4.b)
- **5.** Starting on the right, the places are ones, tens, hundreds, and thousands. Since the 5 is in the tens place of 6,256, it stands for 5 tens or 50. Choice B is correct. (3.NBT.4.a)
- 6. A number with 6 hundreds and 2 ones will have a 6 digit in the hundreds place and a 2 digit in the ones place. The ones place is the first place on the right. The hundreds place is the third place from the right. The only number with 6 hundreds and 2 ones is 1,602. Choice B is correct. (3.NBT.4.a)
- 7. The expanded form of the number shows 9 thousands, 7 tens, and 4 ones. There are no hundreds. For standard form, write the correct digit in each place: 9,074. For word form, write the word value of each place. Since there are no hundreds, do not write the hundreds: nine thousand, seventy-four. (3.NBT.4.b)



1 Place Value PAGE 35

- **8.** In 3,297, the 2 is in the hundreds place, three places from the right. This means the 2 digit has a value of 200. (3.NBT.4.a)
- **9.** There are 4 thousands blocks for 4,000. There is 1 hundreds block for 100. There are 8 tens blocks for 80. There are 6 ones blocks for 6. Combine the value of each digit to write the number in standard form: 4,186. (3.NBT.4.a)
- **10.** Look at the digit in each place. There is a 6 in the thousands place for 6,000. There is an 8 in the hundreds place for 800. There is a 5 in the tens place for 50. There is a 0 in the ones place, so there are no ones. Write the number as a sum of the values of each place: 6,000 + 800 + 50. (3.NBT.4.b)
- place, an 8 in the hundreds place, a 9 in the tens place, and a 3 in the ones place. In 3,298, there is a 3 in the thousands place, a 2 in the hundreds place, a 9 in the tens place, a 0 in the tens place, and an 8 in the ones place. Both numbers have a 9 in the tens place. So in each number, the 9 has a value of 90. (3.NBT.4.a)

Part B To write the word forms, write the word name for the value of each digit. Insert a comma in the same place that a comma is shown in the numeral. So 2,893 is two thousand, eight hundred ninety-three, and 3,298 is three thousand, two hundred ninety-eight. (3.NBT.4.b)

8 What is the value of the 2 in 3,297. Answer 200 9 What number do these place-value blocks show? White the number in standard form. Answer 4,186 10 The Manhattan Bridge in New York City is 6,859-feet long. Write this number in expanded form. Answer 6,000 + 800 + 50 11 Mr. Harker sclass collected 2,893 pounds of food to donate to a food bank. Mrs. Santosic class collected 9,298 pounds of food to donate. Part A Which digit in the two numbers has the same value? Explain. Roth numbers have a 9 in the tens place, so the 9 digit has a value of 90 in both numbers. Part B Write the word forms for 2,893 and 3,298. **Export thousand, eight hundred ninety-three throusand, two hundred ninety-eight **O The Concessaria Parks for the Concessaria Part of the Santon States of the

CONNECTING TO MATHEMATICAL CONTENT

Grade-span connections:

 $2.NBT/1 \rightarrow 3.NB/1.4.a \rightarrow 4.NBT$

 $2.NB/1.3 \rightarrow 3.NB/1.4.b \rightarrow 4.NBT.2$

Grade-level connections:

3.NB1.1 (rounding)

3.NBT.2 (adding and subtracting)

3.MD.2 (working/with metric units)

CONNECTING TO MATHEMATICAL PRACTICES

MP4: Model with mathematics.

MP7: Look for and make use of structure.